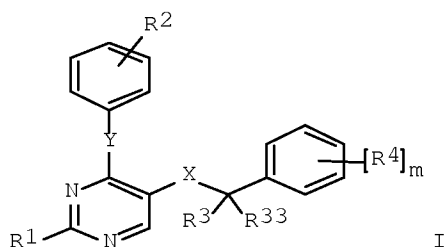


TITLE: Preparation of pyrimidine derivatives as NK1 antagonists
 INVENTOR(S): Stadler, Heinz
 PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.
 SOURCE: PCT Int. Appl., 55 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002042280	A2	20020530	WO 2001-EP13084	20011113 <--
WO 2002042280	A3	20020822		
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IN 2003CN00786	A	20050415	IN 2003-CN786	20030521 <--
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PRIORITY APPLN. INFO.:			EP 2000-125529	A 20001122 <--
			WO 2001-EP13084	W 20011113 <--
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT				
OTHER SOURCE(S):			MARPAT 137:6189	
ED Entered STN:			31 May 2002	
GI				



AB The title compds. [I; R1 = alkyl, alkoxy, pyridinyl, pyrimidinyl, etc.; R2 = H, alkyl, alkoxy, halo, CF3; R3, R33 = H, alkyl; R4 = halo, CF3, alkoxy; R5 = H, alkyl; X = CONR, NRCO; Y = O, S, SO2, NR; m = 0-2] which have a good affinity to the NK1 receptor and therefore are suitable in the treatment of diseases, related to this receptor, were prepared and formulated. Thus, reacting 4-chloro-2-methylsulfanylpurimidine-5- carboxylic acid Et ester with o-cresol in the presence of Cs2CO3 in MeCN (99%) followed by saponification (47%), and amidation of the resulting acid with [3,5-bis(trifluoromethyl)benzyl]methylamine (96%) afforded I [R1 = SMe; R2 = 2-Me; R3, R33 = H; R4 = 3,5-(CF3)2; Y = O; X = CONMe] which showed pKi of 7.38 against NK-1 receptor binding.

IC ICM C07D239-56

ICS C07D239-46; C07D239-52; A61K031-505; A61P025-00

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1, 63

IT	432520-79-1P	432520-80-4P	432520-81-5P	432520-82-6P	432520-83-7P
	432520-84-8P	432520-85-9P	432520-87-1P	432520-88-2P	432520-89-3P
	432520-90-6P	432520-91-7P	432520-92-8P	432520-93-9P	432520-94-0P
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	432521-00-1P	432521-01-2P	432521-02-3P	432521-03-4P	432521-04-5P
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	432521-49-8P				

RL: PAC (Pharmacological activity); SPN (Synthetic preparation);

THU (Therapeutic use); BIOL (Biological study); PREP

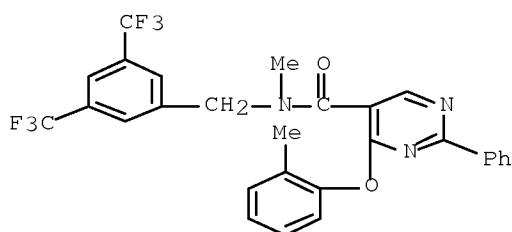
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(preparation of pyrimidine derivs. as NK1 antagonists)

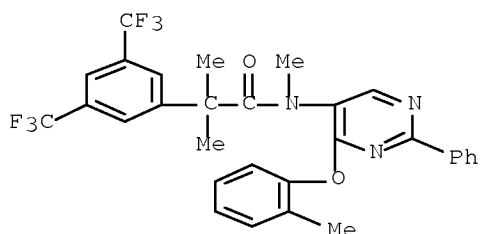
IT 75-65-0, tert-Butanol, reactions 87-13-8, Diethyl ethoxymethylenemalonate 95-48-7, o-Cresol, reactions 108-00-9, 2-Dimethylaminoethylamine 108-01-0, 2-Dimethylaminoethanol 109-01-3, 1-Methylpiperazine 110-85-0, Piperazine, reactions 110-91-8, Morpholine, reactions 123-90-0, Thiomorpholine 622-40-2, N-(2-Hydroxyethyl)morpholine 5909-24-0, 4-Chloro-2-methanesulfanylpurimidine-5-carboxylic acid ethyl ester 15400-46-1 15521-18-3, 2-Dimethylaminopropanol 39989-43-0, 3,5-Dichlorobenzylamine 56406-44-1 77775-71-4 138588-40-6 148452-35-1 159820-24-3 289686-69-7 432521-64-7 432521-65-8 432521-66-9 432521-67-0 432521-68-1 ~~432521-69-2~~ 432521-70-5 432521-71-6 432521-72-7 ~~432521-73-8~~

RL: RCT (Reactant); RACT (Reactant or reagent)

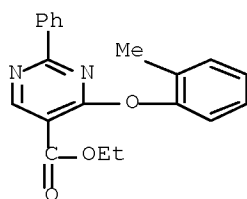
(preparation of pyrimidine derivs. as NK1 antagonists)
 IT 432521-18-1P 432521-49-8P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
 THU (Therapeutic use); BIOL (Biological study); PREP
 (Preparation); USES (Uses)
 (preparation of pyrimidine derivs. as NK1 antagonists)
 RN 432521-18-1 HCAPLUS
 CN 5-Pyrimidinecarboxamide, N-[[3,5-bis(trifluoromethyl)phenyl]methyl]-N-methyl-4-(2-methylphenoxy)-2-phenyl- (CA INDEX NAME)



RN 432521-49-8 HCAPLUS
 CN Benzeneacetamide, N, α , α -trimethyl-N-[4-(2-methylphenoxy)-2-phenyl-5-pyrimidinyl]-3,5-bis(trifluoromethyl)- (CA INDEX NAME)



IT 432521-69-2 432521-73-8
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of pyrimidine derivs. as NK1 antagonists)
 RN 432521-69-2 HCAPLUS
 CN 5-Pyrimidinecarboxylic acid, 4-(2-methylphenoxy)-2-phenyl-, ethyl ester
 (CA INDEX NAME)



RN 432521-73-8 HCAPLUS

CN 5-Pyrimidinamine, N-methyl-4-(2-methylphenoxy)-2-phenyl- (CA INDEX NAME)

